

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Applicant(s): Dong-Hwan KIM, et al. Examiner: not yet known

Serial No.: not yet known Group Art Unit: not yet assigned

Filed: herewith. Date: July 1, 2003

For: **Method For Evaluating Capacity Of Secondary  
Battery Using Mathematical Calculation Of  
Specific Resistance Components Of Equivalent  
Circuit Model Fitted From Impedance Spectrum**

Mail Stop DD  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

**INFORMATION DISCLOSURE STATEMENT**

Sir:

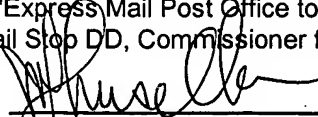
Pursuant to Applicant(s) duty of disclosure, the information listed on the attached form PTO-1449 is brought to the attention of the Examiner. A copy of the listed items is enclosed.

The citation of the listed items is not a representation that they constitute a complete or exhaustive listing of the relevant art or that the references are prior art. The items listed are submitted in good faith, but are not intended to substitute for the Examiner's search. It is hoped, however, that in addition to apprising the Examiner of these particular items, they will assist in identifying fields of search and in making as full and complete a search as possible.

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**CERTIFICATION UNDER 37 C.F.R. § 1.10**

I hereby certify that this correspondence is being deposited with the United States Postal Service on this date July 1, 2003, in an envelope as "Express Mail Post Office to Addressee" Mail Label Number EV 333227354 US addressed to: Mail Stop DD, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

  
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Michael J. Musella

The listed items are described in the present application, thus satisfying the requirement for a concise explanation of the non-English reference under MPEP §609.

The filing of this information disclosure statement is not an admission that the information cited herein is, or is considered to be, material to patentability as defined in 37 C.F.R. § 1.56(b).

- ☐ This information disclosure statement is being filed within three (3) months of the filing date of this application.
- ☐ This information disclosure statement is being filed within three (3) months of the date of entry of the national stage as set forth in 37 C.F.R. § 1.491 in an international application.
- ☒ To the best of Applicant(s) knowledge, this information disclosure statement is being filed before the date of mailing of a first Office Action on the merits in connection with this case.
- ☐ Enclosed herewith is a certificate under 37 C.F.R. § 1.97(e)(1).
- ☐ Enclosed herewith is a petition under 37 C.F.R. § 1.97(d)(ii).
- ☐ Enclosed by check is the petition fee of \$130.00. 37 C.F.R. § 1.17(i)(1))
- ☐ Please charge the \$130.00 petition fee to Deposit Account No. 04-1121.
- ☐ Enclosed by check is the \$180.00 fee required by 37 C.F.R. § 1.17(p).
- ☐ Please charge the \$180.00 fee required by 37 C.F.R. § 1.17(p) to Deposit Account No. 04-1121.

[X] Please charge any deficiency as well as any other fee(s) which may become due under 37 C.F.R. § 1.16 and/or 1.17 at any time during the pendency of this application, or credit any overpayment of such fee(s) to Deposit Account 04-1121. Also, in the event any extensions of time for responding are required for the pending application(s), please treat this paper as a petition to extend the time as required and charge Deposit Account No. 04-1121 therefor.  
**TWO (2) COPIES OF THIS SHEET ARE ENCLOSED.**

The claims of the application as now presented are believed to patentably distinguish over the prior art and to be in condition for allowance.

Early and favorable consideration of the case is respectfully requested.

Respectfully submitted,



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Form PTO-1449	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. 764-23	SERIAL NO. not yet assigned
INFORMATION DISCLOSURE STATEMENT BY APPLICANT  (Use several sheets if necessary)		APPLICANTS KIM, et al	
		FILING DATE herewith	GROUP ART UNIT not yet known

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	3,562,634	02/09/71	Latner			
	3,984,762	10/05/76	Dowgiallo, Jr.			
	4,678,998	07/07/87	Muramatsu			
	4,743,855	05/10/88	Randin et al.			
	4,952,862	08/28/90	Biagetti et al.			
	5,241,275	08/31/93	Fang			
	6,208,147	03/27/01	Yoon et al.			

## FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO
	A1 0119547	07/03/84	EPO				

## OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

		Barsoukov et al., "Universal battery parameterization to yield an non-linear equivalent ci for battery simulation at arbitrary load", Journal of Power Sources, 83, p.61-70 (1999)

EXAMINER	DATE CONSIDERED
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\* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609.  
Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.